



EV 404053101 US

<b>FORM PTO-1449</b> (Based on Form PTO-1449)  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 1 of 3	<b>ATTORNEY DOCKET No.</b>	<b>SERIAL No.</b>
	7784-000696	10/822,538
	<b>APPLICANT</b>	
	Roger Engelbart et al	
	<b>FILING DATE</b>	<b>GROUP</b>
April 12, 2004	Unknown	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	4,310,132	01/12/1982	Robinson et al		
2.	RAR	5,024,399	06/18/1991	Barquet et al		
3.	RAR	6,364,250	04/02/2002	Brinck et al		
4.	RAR	6,648,273	11/18/2003	Anast		
5.	RAR	6,692,681	02/17/2004	Lunde		
6.	RAR	U.S. pending patent application No. 10/846,974 entitled SYSTEMS AND METHODS FOR IDENTIFYING FOREIGN OBJECTS AND DEBRIS (FOD) AND DEFECTS DURING FABRICATION OF A COMPOSITE STRUCTURE		Engelbart et al		05/14/2004

<b>Examiner:</b>	/Richard Rosenberger/	<b>Date Considered:</b>	06/15/2006
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10/822,538

<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 2 of 3	ATTORNEY DOCKET NO.	SERIAL NO.
	7784-000623	<del>10/726,099</del>
	APPLICANT	
	Roger Engelbart et al	
	FILING DATE	GROUP
	<del>December 2, 2003</del>	2621

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
7.	RAR	U.S. pending patent application No. (not yet assigned) entitled COMPOSITE BARREL SECTIONS FOR AIRCRAFT FUSELAGES AND OTHER STRUCTURES, AND METHODS AND SYSTEMS FOR MANUFACTURING SUCH BARREL SECTIONS		Biornstad		05/20/2004

FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No
1.						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.	RAR	Fiedler, L., et al, "Tango Composite Fuselage Platform", SAMPE Journal, Vol. 39, No. 1, January/February 2003, pages 57-63

Examiner:	/Richard Rosenberger/	Date Considered:	06/15/2006
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	7784-000623	<del>10/726,099</del>
	APPLICANT	
	Roger Engelbart et al	
	FILING DATE	GROUP
	<del>December 2, 2000</del>	<del>2821</del>

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
2.	RAR	BAe 146, Flight International, May 2, 1981, 2 pages
3.	RAR	A Barrellful of Experience, Intervia, May 1992, 2 pages
4.	RAR	Raytheon, March 2000, Vol. 4, No. 2, <a href="http://www.cts.com/king/vasci/newsletter/vol42.html">http://www.cts.com/king/vasci/newsletter/vol42.html</a>
5.	RAR	Business Aviation, June 7, 2002, <a href="http://www.aviationnow.com/avnow/news/channel_busav.jsp?view=story&amp;id=news/btoyo0607.xml">http://www.aviationnow.com/avnow/news/channel_busav.jsp?view=story&amp;id=news/btoyo0607.xml</a>
6.	RAR	Beechcraft's Composit Challenge, <a href="http://www.aerotalk.com/Beech.cfm">http://www.aerotalk.com/Beech.cfm</a>
7.	RAR	EVANS, Don O., "Fiber Placement", 3 pages, Cincinnati Machine, pages 477-479

Examiner: /Richard Rosenberger/	Date Considered: 06/15/2006
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Sheet 1 of 2

ATTORNEY DOCKET NO.	SERIAL No.
7784-000696	10/822,538
APPLICANT	
Engelbart et al	
FILING DATE	GROUP
April 12, 2004	Unknown

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	4,941,182	07/1990	Patel		
2.	RAR	5,518,208	05/1996	Roseburg		
3.	RAR	6,205,239	03/2001	Lin et al		
4.	RAR	6,799,619	10/2004	Holmes et al		
5.	RAR	U.S. published application No. 2001 0023349	09/2001	Van Tassel et al		
6.	RAR	U.S. pending provisional application No. 60/559,911		Johnson et al		04/04/2004
7.	RAR	U.S. pending provisional application No. 60/559,890		Bjornstad et al		04/06/2004
8.	RAR	U.S. pending application No. 10/819,084		Turnmire et al		
9.	RAR	U.S. pending application No. 10/853,075		Johnson et al		
10.	RAR	U.S. pending utility patent application No. 10/949,848		Stulc		09/23/2004

**FOREIGN PATENT DOCUMENTS**

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Date Considered: 06/15/2006

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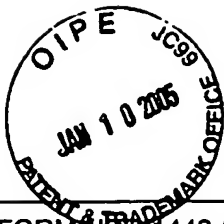
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	April 12, 2004	Unknown

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
11.	RAR	Advanced Technology Tape Laying for Affordable Manufacturing of Large Composite Structures; <a href="http://www.cinmach.com/tech/pdf/TapeLayingGrimshaw.pdf">http://www.cinmach.com/tech/pdf/TapeLayingGrimshaw.pdf</a> ; Michael N. Grimshaw, et al; 11 pages
12.	RAR	Fiber Placement; <a href="http://www.cinmach.com/tech/pdf/asm_chapter_fp.pdf">http://www.cinmach.com/tech/pdf/asm_chapter_fp.pdf</a> ; Don O. Evans; Cincinnati Machine; 3 pages
13.	RAR	Automated Tape Laying; <a href="http://www.cinmach.com/tech/pdf/Grimshaw%20ASM%20Handbook.pdf">http://www.cinmach.com/tech/pdf/Grimshaw%20ASM%20Handbook.pdf</a> ; Michael N. Grimshaw; Cincinnati Machine; 6 pages
14.	RAR	Raytheon Aircraft's Hawker Horizon Reaches Fuselage Milestone, Raytheon News Release; <a href="http://www.beechcraft.de/Presse/2000/100900b.htm">http://www.beechcraft.de/Presse/2000/100900b.htm</a> ; 2 pages

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7784-000696

SERIAL NO.

10/822,538

APPLICANT

Engelbart et al

FILING DATE

April 12, 2004

GROUP

2877

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	5,825,495	10/20/1998	Huber		
2.	RAR	5,917,588	06/29/1999	Addiego		
3.	RAR	U.S. published application No. 2001/002149	05/31/2001	Vaez-Iravani et al		
4.	RAR	6,369,492	04/09/2002	Sugimoto		
5.	RAR	6,725,123	04/20/2004	Denuell		

**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	RAR	WO 94/18643	08/18/1994	PCT			
2.	RAR	EP 1 030 172	08/23/2000	Europe			X
3.	RAR	JP 2001012930	01/19/2001	Japan			X
4.		<del>Patent Abstracts of Japan, vol. 2000, no. 10</del>	<del>05/00/2001</del>	<del>Japan</del>			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
1.	RAR	European Search Report, Application No. 04076900.2, dated December 1, 2004, 4 pages

Examiner: /Richard Rosenberger/

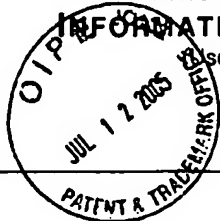
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		<b>APPLICANT</b>	
		Engelbart, et al	
		<b>FILING DATE</b>	<b>GROUP</b>
		April 12, 2004	2877



U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date (mm/dd/yr)	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	5,562,788	10/08/1996	Kitson et al		

FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date (mm/dd/yr)	Country	Class/ Subclass	Translation Yes No
1.	RAR	EP 0 319 797	06/14/1989	Europe		
2.	RAR	EP 0 833 146	04/01/1998	Europe		

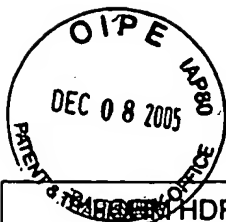
OTHER DOCUMENTS (including Author, Title, Date, Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.	RAR	Prof. J. Zhang: "Angewandte Sensorik" CH. 4, SENSOREN IN DER ROBOTIK, 11 November 2003 (2003-11-11), pages 76-113, XP002327793; URL: <a href="http://tech-www.informatik.uni-hamburg.de/lehre/ws2003/vorlesungen/angewandte_sensorik/vorlesung_03.pdf">http://tech-www.informatik.uni-hamburg.de/lehre/ws2003/vorlesungen/angewandte_sensorik/vorlesung_03.pdf</a> , retrieved on 2004-04, page 89

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Sheet 1 of 1

ATTORNEY DOCKET NO.

SERIAL No.

7784-000696/US

10/822,538

APPLICANT

Roger W. Engelbart et al

FILING DATE

GROUP

April 12, 2004

2877

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date (mm/dd/yr)	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	5,198,983	03/30/1993	Blake et al		

**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date (mm/dd/yr)	Country	Class/ Subclass	Translation Yes	No
1.	RAR	EP 0903574	03/24/1999	Europe			
2.	RAR	WO 2004/025385	03/25/2004	PCT			X

**OTHER DOCUMENTS (including Author, Title, Date, Pages, etc.)**

Ref. Desig.	Examiner's Initials	
1.	RAR	KRUPKA R; WALZ T; ETTEMEYER A: "Industrial applications of shearography for inspection of aircraft components" PROCEEDINGS OF THE 8TH EUROPEAN CONFERENCE OF NONDESTRUCTIVE TESTING, BARCELONA (SPAIN), JUNE 17-21, 2002, 'Online! 30 June 2002 (30/6/2002), XP002351899 NDT.NET - FEBRUARY 2003, VOL 8, NO 2 Retrieved from the Internet: URL: <a href="http://www.ndt.net/article/ecndt02/484/484.htm">http://www.ndt.net/article/ecndt02/484/484.htm</a> > 'retrieved on 2005-10-31!

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<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 1 of 7	ATTORNEY DOCKET NO.	SERIAL NO.
	7784-000696	New Application
	APPLICANT	
	Roger Engelbart et al.	
	FILING DATE	GROUP
	12 April 2004	Unknown 2877

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RAR	3,879,245	04/22/1975	Fetherson, et al		
2.	RAR	4,064,534	12/20/1977	Chen et al.		
3.	RAR	4,548,859	10/22/1985	Kline et al		
4.	RAR	4,608,220	08/26/1986	Caldwell et al		
5.	RAR	4,693,678	09/15/1987	Von Volkli		
6.	RAR	4,699,683	10/13/1987	McCowin		
7.	RAR	4,760,444	07/26/1988	Nielson et al.		
8.	RAR	4,780,262	10/25/988	Von Volkli		
9.	RAR	4,790,898	12/13/1988	Woods		
10.	RAR	4,830,298	05/16/1989	Van Blunk		
11.	RAR	4,877,471	10/31/1989	McCowin et al		
12.	RAR	5,058,497	10/22/1991	Bishop et al.		
13.	RAR	5,337,647	08/16/1994	Roberts et al		
14.	RAR	5,439,549	08/08/1995	Fryc et al		
15.	RAR	5,450,147	09/12/1995	Dorsey-Palmateer		
16.	RAR	5,540,126	07/30/1996	Piramoan		
17.	RAR	5,651,600	07/29/1997	Dorsey-Palmateer		
18.	RAR	5,683,646	11/04/1997	Reilling Jr.		
19.	RAR	5,700,337	12/23/1997	Jacobs et al.		
20.	RAR	5,746,553	05/05/1998	Engwall		
21.	RAR	5,804,276	09/08/1998	Jacobs et al		
22.	RAR	5,814,386	09/29/1998	Vasiliev et al		
23.	RAR	5,871,117	02/16/1999	Protasov et al		

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	7784-000696	New application
	<b>APPLICANT</b>	
	Roger Engelbart et al	
	<b>FILING DATE</b>	<b>GROUP</b>
	12 April 2004	Unknown

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
24.	RAR	5,963,660	10/05/1999	Koontz et al		
25.	RAR	5,979,531	11/9/1999	Barr et al		
26.	RAR	6,012,883	01/11/2000	Engwall et al		
27.	RAR	6,013,341	01/11/2000	Medvedev et al		
28.	RAR	6,045,651	04/04/2000	Kline et al		
29.	RAR	6,074,716	06/13/2000	Tsotsis		
30.	RAR	6,086,696	07/11/2000	Gallagher		
31.	RAR	6,112,792	09/05/2000	Barr et al		
32.	RAR	6,168,358	01/02/2001	Engwall et al		
33.	RAR	6,390,169	05/21/2002	Johnson		
34.	RAR	6,451,152	09/17/2002	Holmes et al		
35.	RAR	6,480,271	11/12/2002	Cloud et al		
36.	RAR	U.S. Patent Application S/N 10/068,735 entitled COMPOSITE MATERIAL COLLATION MACHINE AND ASSOCIATED METHOD FOR HIGH RATE COLLATION OF COMPOSITE MATERIALS	02/06/2002	Engelbart et al.		

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Sheet 3 of 7

ATTORNEY DOCKET NO.

7784-000696

SERIAL NO.

New application

APPLICANT

Roger Engelbart et al

FILING DATE

12 April 2004

GROUP

Unknown

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
37.	RAR	U.S. Patent Application S/N 10/217,805 entitled SYSTEM FOR IDENTIFYING DEFECTS IN A COMPOSITE STRUCTURE	08/13/2002	Engelbart et al.		
38.	RAR	U.S. patent application No. 10/301,949 entitled PARALLEL CONFIGURATION COMPOSITE MATERIAL FABRICATOR		Engelbart et al		11/22/2002
39.	RAR	US2002/0141632 A1	10/03/2002	Engelbart et al.		
40.	RAR	U.S. Patent Application S/N 10/628,691 entitled SYSTEMS AND METHODS FOR IDENTIFYING FOREIGN OBJECTS AND DEBRIS (FOD) AND DEFECTS DURING FABRICATION OF A COMPOSITE STRUCTURE	07/28/2003	Engelbart, et al.		

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	7784-000696	New application
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	12 April 2004	Unknown

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
41.	RAR	U.S. patent application No. 10/630,594 entitled COMPOSITE FUSELAGE MACHINE		Braun		07/28/2003
42.	RAR	U.S. Patent Application S/N 10/646,316 entitled UNIDIRECTIONAL MULTIHEAD FIBER PLACEMENT		New		08/22/2003
43.	RAR	U.S. Patent Application S/N 10/646,392 entitled AUTOMATED COMPOSITE LAY-UP TO AN INTERNAL FUSELAGE MANDREL		Engwall		08/22/2003

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	7784-000696	New application
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	12 April 2004	Unknown

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
44.	RAR	U.S. Patent Application S/N 10/646,509 entitled MULTIPLE HEAD AUTOMATED COMPOSITE LAMINATING MACHINE FOR THE FABRICATION OF LARGE BARREL SECTION COMPONENTS		Johnson		08/22/2003
45.	RAR	U.S. Patent Application S/N 10/664,148; entitled COMPOSITE MATERIAL COLLATION MACHINE AND ASSOCIATED METHOD FOR HIGH RATE COLLATION OF COMPOSITE MATERIALS; divisional application of 10/068,735	09/17/2003	Engelbart, et al.		

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	12 April 2004	Unknown

U.S. PATENT DOCUMENTS						
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46.	RAR	U.S. Patent Application S/N 10/717,030 entitled METHOD OF TRANSFERRING LARGE UNCURED COMPOSITE LAMINTES		Johnson		11/18/2003
47.	RAR	U.S. Patent Application S/N 10/726,099 entitled SYSTEMS AND METHODS FOR DETERMINING DEFECT CHARACTERISTICS OF A COMPOSITE STRUCTURE		Engelbart et al		12/2/2003
48.	RAR	U.S. Patent Application S/N 10/799,306 entitled SYSTEMS AND METHODS FOR ENABLING AUTOMATED RETURN TO AND/OR REPAIR OF DEFECTS WITH A MATERIAL PLACEMENT MACHINE		Engelbart et al		03/12/2004

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<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 7 of 7	ATTORNEY DOCKET NO.	SERIAL NO.
	7784-000696	New application
	APPLICANT	
	Roger Engelbart et al	
	FILING DATE	GROUP
	12 April 2004	Unknown

**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
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**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
49.	RAR	Sharp et al.; "Material Selection/Fabrication Issues for Thermoplastic Fiber Placement", Journal of Thermoplastic Composite Materials, Vol. 8; January, 1995, pg. 2-14
50.	RAR	<a href="http://www.cinmach.com/WolfTracks4_1/MTG_WT7.htm">http://www.cinmach.com/WolfTracks4_1/MTG_WT7.htm</a> ; Premier I Features Lighter, Stronger All-Composite Fuselage, 3 pages
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Examiner: /Richard Rosenberger/

Date Considered: 06/15/2006

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